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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

NGUYEN, STEVEN H D

ART UNIT	PAPER NUMBER
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2616

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/086,602

Applicant(s)

CHANG ET AL.

Examiner

Steven HD Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 March 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 27,165-181 and 184 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 27,165-177,179-181 and 184 is/are rejected.
- 7) ☒ Claim(s) 178 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. The numbering of claims is not in accordance with 37 CFR 1.126 which requires the original numbering of the claims to be preserved throughout the prosecution. When claims are canceled, the remaining claims must not be renumbered. When new claims are presented, they must be numbered consecutively beginning with the number next following the highest numbered claims previously presented (whether entered or not).

Misnumbered claims 27, 165-181 and 184 have been renumbered 1-19. Claim 179 objected to because of the following informalities: "the master database" in line 4, should be changed to -- a master database --.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claim 27 rejected under 35 U.S.C. 101 because the claimed invention is directed to a method of performing the mathematical functions that do not fall within any of the four categories of statutory subject matter of 35 U.S.C. § 101. The claimed invention is not limited to a practical application. Viewed as a whole, the claimed invention merely expresses a data base which includes at least one component such as gateway etc... It does not impart any function to the processing system, i.e., the claimed invention is not practical applied. Instead, the claimed invention merely describes a data base; so it is clearly not a process because they do not

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have any limitation to a practical application. The other three § 101 classes of machine, compositions of matter and manufactures can be group as product claims, and the product classes have required physical structure or material. The claimed data base does not itself perform any useful concrete and tangible result, i.e., no post solution activity, and thus does not fit within the definition of a machine. In addition, the claimed data base is an abstract construct; therefore, the claimed data base do not fall within the product classes, machine and composition of matter.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6. Claim 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Krishnaswamy (USP 6909708).

Krishnaswamy discloses a method of configuring an enterprise directory for IP telephony, the method comprising the steps of (a) providing an X.500 compatible directory (Fig 1, Ref Directory server 1, 2 and 3); and (b) including in a schema of the directory at least one object for representing a component of an IP telephony system, the component selected from a group consisting of: a GateKeeper; a Gateway; a Multipoint Control Unit (MCU); a GateKeeper Exchange; and a user with associated telephony service attributes (Fig 10A, Ref Directory server provides information about gateway or gatekeeper for internet telephony).

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7. Claims 176-177 are rejected under 35 U.S.C. 102(e) as being anticipated by Curry (US 6078582).

Regarding claim 176, Curry discloses a method of operating a communication system having a plurality of gateway networks coupled to an internet protocol (IP) network and to a public switched telephone (PST) network to route a telephone call over the IP network, the method comprising steps of providing a directory server (Fig 6, Ref 80); accessing the directory server to create a plurality of gateway databases (Fig 7, Ref 120), each gateway database associated with one of the plurality of gateway networks (Fig 7, Ref 120) and each gateway database comprising a list of telephone numbers that each of the plurality of gateway networks will accept (Fig 10A); connecting a user to one of the plurality of gateway networks via a calling telephone (Fig 6, Ref 64); accepting a telephone number entered by the user (Fig 9A, Ref 120)); accessing the gateway database associated with the gateway network to determine which of the plurality of gateway networks will accept the telephone number entered by the user (Fig 9A, Ref 124-18); and routing the telephone call from the calling telephone over the IP network (Fig 9A, Ref 130).

Regarding claim 177, Curry discloses coupling an enterprise directory having an extensible schema to the IP network; and extending the schema of the enterprise directory with objects representing components of the communication system to create the directory server (Fig 10 and Fig 6, Ref 80).

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 165-175 are rejected under 35 U.S.C. 102(e) as being anticipated by Guy (USP 6870827) in view of Rogers (USP 5946386).

Regarding claim 165, Guy discloses a communication system comprising an internet protocol (IP) network (Fig 1, Ref 104); a plurality of gateway networks (Fig 1, Ref 112 and 130) and a directory server coupled to the plurality of gateway networks (Col. 10, line 62, master directory includes information to route a call), the directory server comprising an enterprise directory having an extensible schema configured to provide data to support routing of telephone calls. However, Guy fails to disclose a gateway coupled to the PST network and the IP, each of the plurality of gateway networks configured to route a telephone call over the PST network or the IP network. However, in the same field of endeavor, Rogers discloses a gateway which coupled to PSTN and Internet, routes the calls over PSTN or internet (Fig 2, Ref 202 is PSTN and 213 is internet).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to implement a gateway having the interfaces for coupling to internet and PSTN as disclosed by Rogers into the teaching of Guys. The motivation would have been to reduce the cost of the telephone system.

Regarding claim 166, Guy discloses each of the plurality of gateway networks comprise a gateway database capable of providing information for routing the telephone call over the IP network, and wherein the gateway database is created from information dredged from the directory server (Col. 10, lines 52-65, a local directory and master directory includes information to route a call).

Regarding claim 167, Guy and Rogers fail to disclose the directory server is coupled to the IP network, and wherein users of the communication system can make changes to objects in the directory server representing components of the communication system through a web browser coupled to the IP network. However, the examiner take an official notice that a method and system for allowing a user to interface with a database in order to modify the information is well known and expected in the art at the time of invention was made. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to implement a GUI such web into a database into the system and method of Guy and Rogers. The motivation would have been reduce the cost of the call.

Regarding claim 168, Guy discloses computer software capable of automatically updating the gateway databases to reflect changes in the directory server (Col. 9, lines 10-40).

Regarding claim 169, Guy discloses computer software capable of updating the gateway databases when a new gateway network is added to the communication system and information for the new gateway network entered in the directory server (Col. 9, lines 10-40).

Regarding claim 170, Guy discloses the computer software is configured to update a gateway database associated with one of the plurality of gateway networks when the gateway network is placed in operation (Col. 9, lines 10-40).

Regarding claim 171, Guy discloses the directory server comprising a gateway. Guys and Rogers fail to disclose database comprises in its scheme at least one object selected from a group consisting of an object configured to represent a GateKeeper; an object configured to represent a Gateway; an object configured to represent a Multipoint Control Unit; an object configured to represent a GateKeeper Exchange; and an object configured to represent communication system user with associated telephony services attributes. However, the examiner take an official notice that a database comprises in its scheme at least one object selected from a group consisting of an object configured to represent a GateKeeper; an object configured to represent a Gateway; an object configured to represent a Multipoint Control Unit; an object configured to represent a GateKeeper Exchange; and an object configured to represent communication system user with associated telephony services attributes are well known and expected in the art at the time of invention was made. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to implement a database that includes gateway, gatekeeper etc into the system and method of Guy and Rogers. The motivation would have been to turn the internet into a multimedia network in order to reduce the cost of telephone call.

Regarding claim 172, Guys and Rogers fail to disclose the enterprise directory includes at least one directory selected from the group consisting of: a Novell Directory Services (NDS) compatible directory; a Microsoft Active Directory Services.RTM. (ADS) compatible directory; a Microsoft NT.RTM. domain compatible directory; an X.500 compatible directory; a Netscape.RTM. Directory Server; and a lightweight directory access protocol (LDAP) server. However, the examiner take an official notice that a database includes at least one directory

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selected from the group consisting of: a Novell Directory Services (NDS) compatible directory; a Microsoft Active Directory Services.RTM. (ADS) compatible directory; a Microsoft NT.RTM. domain compatible directory; an X.500 compatible directory; a Netscape.RTM. Directory Server; and a lightweight directory access protocol (LDAP) server is well known and expected in the art at the time of invention was made. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to implement one of these directory into the system and method of Guys and Rogers. The motivation would have been to turn the internet into a multimedia network in order to reduce the cost of telephone call.

Regarding claim 173, Guy discloses the telephones comprise IP telephones (Col. 2, lines 19-49, PC is IP telephones).

Regarding claim 174, Guys and Rogers fail to disclose the IP telephones include H.323 compliant telephones. However, the examiner take an official notice that H.323 compliant telephones is well known and expected in the art at the time of invention was made. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to implement a H.323 compliant telephones into the system and method of Guys and Rogers. The motivation would have been to turn the internet into a multimedia network in order to reduce the cost of telephone call.

Regarding claim 175, Guy discloses non-IP telephones including at least one telephone selected from the group consisting of private branch exchange telephones; and plain old telephones (POTS) (Fig 1, ref 108).

10. Claims 179-181 rejected under 35 U.S.C. 103(a) as being unpatentable over Curry (USP 6078582).

Regarding claim 179-181, Curry fails to disclose the steps of accessing a company database coupled to the IP network; copying the company database to the master database and provide a company white pages comprising lists of users and telephone numbers. However, the examiner take an official notice that a method for copying a database into another database and provide a white page that includes the telephone numbers and users depend on a location from which the company white pages is accessed are well known and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to copy a database into another database and provide a white or yellow page with telephone number and user depending on the location of the accessed user into the teaching of Curry. The motivation would have been to save time and reduce human errors.

11. Claim 184 rejected under 35 U.S.C. 102(e) as being anticipated by Guy (USP 6870827) in view of Rogers (USP 5946386) and Rainis (USP 6310873).

Regarding claim 184, Guys discloses a communication system comprising an internet protocol (IP) network (Fig 1, Ref 104); a plurality of voice gateways (Fig 1, Ref 122 and 112), general purpose directory-services comprising a distributed network of directory servers (Col. 9, lines 10-40, master and local directory) coupled to the plurality of voice gateways, the directory services configured to provide data to support routing of telephone calls over the IP network (Fig 5-6 for routing the call). However, Guys fails to disclose each of the plurality of voice gateways configured to route a telephone call over the PST network or the IP network; and directory having an extensible schema including at least one IP telephony object selected from a group consisting of an object configured to represent a GateKeeper; an object configured to represent a Gateway; an object configured to represent a Multipoint Control Unit; an object configured to

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represent a GateKeeper Exchange; and an object configured to represent communication system user with associated IP telephony services attributes, the directory-services comprising at least one directory-services selected from the group consisting of a Novell Directory Services.RTM. (NDS); a Microsoft Active Directory Services.RTM. (ADS); an X.500 based directory-services; a Netscape.RTM. Directory Server; and a lightweight directory access protocol (LDAP) compatible directory-services, whereby a single point of entry is provided for making additions, changes and deletions of the IP telephony objects by making additions, changes and deletions in the schema of the directory services. In the same field of endeavor, Rogers discloses each of the plurality of voice gateways configured to route a telephone call over the PST network or the IP network (Fig 2, Ref 202 is PSTN and 213 is Internet). However, Guys and Rogers still fail to disclose directory having an extensible schema including at least one IP telephony object selected from a group consisting of an object configured to represent a GateKeeper; an object configured to represent a Gateway; an object configured to represent a Multipoint Control Unit; an object configured to represent a GateKeeper Exchange; and an object configured to represent communication system user with associated IP telephony services attributes, the directory-services comprising at least one directory-services selected from the group consisting of a Novell Directory Services.RTM. (NDS); a Microsoft Active Directory Services.RTM. (ADS); an X.500 based directory-services; a Netscape.RTM. Directory Server; and a lightweight directory access protocol (LDAP) compatible directory-services, whereby a single point of entry is provided for making additions, changes and deletions of the IP telephony objects by making additions, changes and deletions in the schema of the directory services. In the same field of

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endeavor, Rainis discloses a directory is LDAP database includes gateway addresses and providing adding and deleting the gateway address (col. 5, lines 25-38 and col. 11, lines 54-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to apply a method for adding, deleting and changing information from LDAP server having the gateway addresses into the database of the gateway of Rogers which includes the interfaces for coupling to PSTN and internet into the teaching of Guys. The motivation would have been to turn the internet into a multimedia network in order to reduce the cost of telephone call.

Allowable Subject Matter

12. Claim 178 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

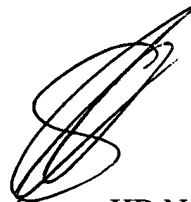
Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven HD Nguyen whose telephone number is (571) 272-3159. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Steven HD Nguyen', is positioned above the printed name.

Steven HD Nguyen
Primary Examiner
Art Unit 2616
March 31, 2006